WA90AVE
WA90AWM
WA90A7K
WA85ASN
WA85ASO
WA85A5C
WA82ASL
WA82A5R
WA82A4R

Washing Machine

user manual

imagine the possibilities

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features

- **The Silver Wash System** option
  - This is a wash control system that enables to kill bacteria hidden in the cloth during the wash or rinse, to protect human skin from harmful bacteria through the antibiotic coating by SILVER Wash, and to realize a pleasant, healthy sanitization. This system also prevents propagation of bacteria through antibiotic coating on the washed cloth.
- **Air Turbo Drying System**
  - Air Turbo technology spins hard and fast so you can spend less time drying.
  - Time Saving AIR TURBO saves your time, ensuring your clothes are dried 30%-40% faster than line drying alone. Especially during the rainy season and in high-humid weather, laundry that once took days to drip-dry, such as heavy jeans, bulky sweaters, and thick blankets are dried more rapidly.
  - Easy-to-iron AIR TURBO is perfect for delicates and clothes made of synthetic fabrics. No more hanging and waiting. Simply iron straight-out-of-the washer, since AIR TURBO eliminates just enough moisture to keep clothes adequately damp for ironing.
- **Fuzzy Control**
  - Fuzzy control operates with best washing course by sensing the washload like artificial intelligence.
- **Transparent Window**
  - This Transparent Window is the new concept to solve the curiosity of users to see inside of washing machine while operation.
    While operation, the laundry progress inside of washing machine can be checked by looking through the transparent window.
- **Double Storm Pulsator - Less Tongle, Better Washing Performance**
  By rotating an inner and outer blade at different speeds, two powerful currents of water created that ensure that clothes get clean with less damage than a conventional washing machine. The tornado like water currents enhance both washing and rinsing power while reducing unnecessary fractions and in creating both the durability and reliability of your fine fabrics by preventing the laundry from getting twisted and knotted.
- **Pul-Drum Pulsator** option
  This feature includes the optimum wash performance using less energy and time.
- **Diamond Drum** option
  Smaller holes in the washer drum don't mean a less effective wash. Through vigorous testing we have found that diamond drum get deep-clean results with less washing damage, without compromising performance.
  The drum has thousands of tiny holes to discharge water. With the diamond drum, holes are smaller and located deep in each diamond-shaped to allow for effective yet gentle washing.
- **Magic Filter**
  - This unique magic Filter ensures that all the lint inside the tub is captured for top quality filtering results to deliver consistently effective cleaning results.
- **Auto Restart**
  - The power is turned on automatically after power failure.
- **Softner Dispenser**
  - The Softener Dispenser releases the fabric softener at the appropriate time when the last rinsing proceeds.
- **CHILD-LOCK Function**
  - This is a device to protect children from being accidentally hurt while playing with the washer.(For more information, see page 11.)
- **Super Clean Feature**
  Use for clean washing.
  Water is supplied to moderate level and then five times more while washing.

safety information

Throughout this manual, you'll see Warning ⚠ and Caution ⚠ notes. These warnings, cautions, and the important safety instructions that follow do not cover all possible conditions and situations that may occur. It's your responsibility to use common sense, caution, and care when installing, maintaining, and operating your washer. Samsung is not liable for damages resulting from improper use.

IMPORTANT SAFETY SYMBOLS AND PRECAUTIONS

What the icons and signs in this user manual means:

WARNING — Hazards or unsafe practices that may result in **severe personal injury or death.**	Do NOT attempt.
CAUTION — Hazards or unsafe practices that may result in **minor personal injury or property damage.**	Do NOT disassemble.
CAUTION — To reduce the risk of fire, explosion, electric shock, or personal injury when using your washer, follow these basic safety precautions:	Do NOT touch.
	Follow directions explicitly.
	Unplug the power plug from the wall socket.
	Make sure the machine is grounded to prevent electric shock.
	Call the service center for help.
	Notice

These warning signs are here to prevent injury to you and others. Please follow them explicitly. After reading this section, keep it in a safe place for future reference.

Read all instructions before using the appliance.

As with all any equipment using electricity and moving parts, potential hazards exist. To safely operate this appliance, become familiar with its operation and exercise care when using it.

Install and store your washer inside, away from exposure to weather.

Install and level your washer on a floor that can support its weight.

Your washer must be properly grounded. Never plug it into an ungrounded outlet.

Position the washer so that a wall plug is accessible after the installation is completed.

CAUTION To reduce the risk of fire or explosion:

• Do not wash items that have been washed, soaked, or treated with gasoline, dry cleaning solvents, or other flammable or explosive substances. They give off vapors that could ignite or explode. Rinse by hand any material that has been exposed to cleaning solvent or other flammable liquids or solids before putting in your washer. Be sure that all traces of such liquids, solids, and fumes have been removed. Dangerous substances include acetone, denatured alcohol, gasoline, kerosene, certain liquid household cleaners and spot removers, turpentine, waxes, and wax removers.

• Do not put gasoline, dry cleaning solvents, or other flammable or explosive substances into the washer.

• Under certain conditions, hydrogen gas may be produced in a hot water system - such as your hot water heater - that has not been used for two weeks or more. HYDROGEN GAS IS EXPLOSIVE. If your hot water system has not been used for two weeks or more, turn on all hot water faucets in your home, and let the water flow for several minutes before using your washer. This will release any hydrogen gas build-up. Since hydrogen gas is flammable, do not smoke or light an open flame during this time.

Ventilate immediately without touching the power plug if there is a gas leak.

Unplug the power cord before servicing your washer.

Do not reach into the appliance when the tumbler is moving.

safety information

Do not reach under the appliance with your hands or with an object as you may be injured by the spinning board beneath the washer.

WARNING Do not let children attempt to look into the washer as falling into the washer is extremely dangerous and may be fatal.

WARNING This appliance is not intended for use by young children or infirm persons unless they have been adequately supervised by a responsible person to ensure that they can use the appliance safely. Young children should be supervised to ensure that they do not play with the appliance.

Do not repair, replace, or service any part of your washer yourself unless you fully understand the recommended user-repair instructions and have the skills to carry them out. Work done by an unauthorized person may void your warranty.

Store laundry, detergents and other laundry supplies in a cool, dry place out of children's reach.

Disconnect the hoses and turn off the water when not using the washer.

If the power cord is damaged, it must be replaced by the manufacturer, a service agent or similarly qualified person in order to avoid a hazard.

Do not forcefully bend the power cable or place any Blanket objects on the cable.

Do not touch the power cord with wet hands.

Do not overload the power outlet with too many appliances.

Do not install the washer nearby electrical implements and do not place any candles or cigarettes on the washer.

Do not go near the washer if it is flooded or under water, as there is a risk of electric shock. Unplug the washer and drain the water completely.

CAUTION Do not combine chlorine bleach, ammonia, or acids (such as vinegar or rust remover) in the same wash. The fumes that can form when any of these items are combined are hazardous.

Do not machine wash fiberglass materials. Small particles can stick to fabrics washed in subsequent loads and cause skin irritation.

Connect the washer to the main water supply using a new set of hoses. Do not reuse an old set of hoses.

Water inlet hoses deteriorate over time. Check the hoses periodically for bulges, kinks, cuts, wear, and leaks, and replace them as needed and at least every five years.

Before each wash, empty the pockets of your laundry. Small, irregularly shaped hard objects, such as coins, knives, pins, and paperclips could damage your washer. Do not wash clothing with large buckles, buttons, or other Blanket metal objects.

If the washer does not stop within 10 seconds with load after you open the lid, call a service agent immediately.

Connect the grounding wire to the shell plate, and bury it under at least 10 in (25 cm) of earth: Alternatively, connect the ground wire to the appropriate pin on a properly grounded power receptacle. Never connect the wire to a telephone line, lightning rod, or gas pipe.

For washers with ventilation openings in the base, that a carpet must not obstruct the openings.

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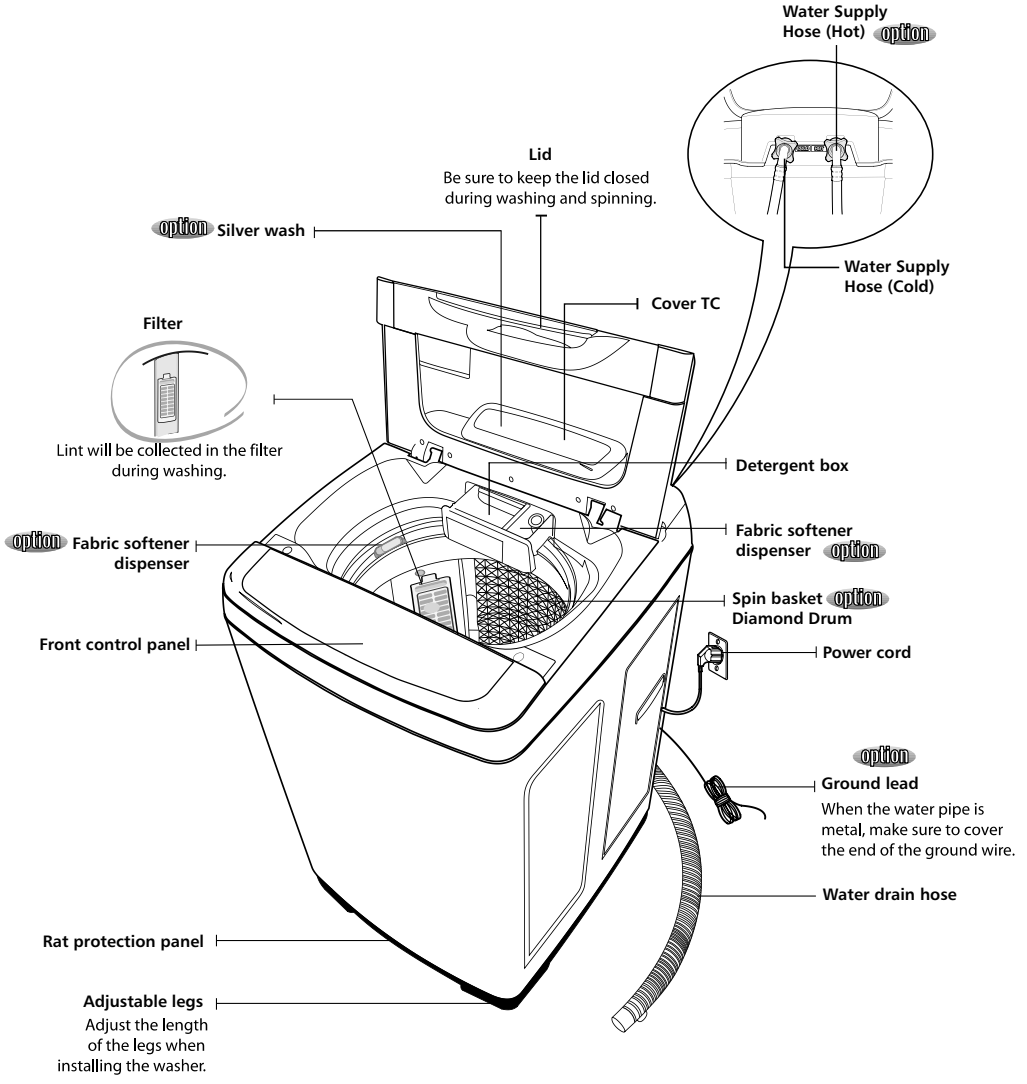
DESCRIPTION OF PART

The User's Manual is for common use.
Make use of the User's Manual depending upon your washing machine model.


Water Supply Hose (Hot) option
Lid
Be sure to keep the lid closed during washing and spinning.
option Silver wash
Water Supply Hose (Cold)
Cover TC
Filter
Lint will be collected in the filter during washing.
Detergent box
option Fabric softener dispenser
Fabric softener dispenser option
Spin basket option
Diamond Drum
Front control panel
Power cord
option
Ground lead
When the water pipe is metal, make sure to cover the end of the ground wire.
Water drain hose
Rat protection panel
Adjustable legs
Adjust the length of the legs when installing the washer.

The User's Manual is for common use.
Make use of the User's Manual depending upon your washing machine model.

ENVIRONMENT

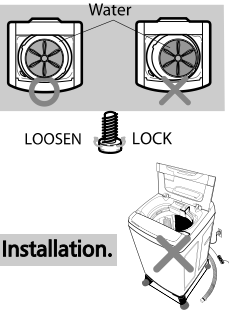
Leave some space
Maintain at least 10cm between the washer and the wall.
Place the washer on a sturdy flat surface.
If the washer is placed on an uneven or weak surface, noise or vibration occurs. (Allowable is 1°)
Adjust the legs for even placement.
Never install the washer near water.
Do not place the washer in steamy rooms or where the washer is directly exposed to rain. Moisture may destroy the electrical insulation causing an electrical shock hazard.
Avoid direct sunlight or heaters.
As plastic an electrical components are affected by direct heat, never place the washer near furnaces, boilers, etc. Do not place under direct sunlight.

LEVELLING

- If the washer is not leveled with the ground, it makes the machine tremble more or be out of order. So, make sure that the washer is leveled properly.

SEE IF THE MACHINE IS PLACED LEVEL BY CHECKING THE POSITION OF THE WASHING TUB.

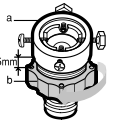
- Open the lid of the machine, pour water into the tub up to the level just below the pulsator, and adjust the legs so that the pulsator is positioned at the center of the water as shown in the figure.
- Place the machine more than 10cm away from the wall.
- Adjust the legs on feet for levelling (Leg position - Right Front).
- **Do not use stand, trolly and bricks for Washing Machine Installation.**



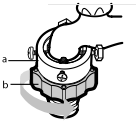
CONNECTING THE WATER SUPPLY HOSE

1. Remove the adaptor from the water supply hose.

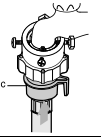
2. First, using a "+" type screw driver, loosen the four screws on the adaptor. Next, take the adaptor and turn part(b) following the arrow for gap about 5 mm between them.



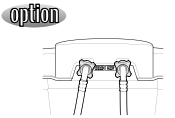
3. Connect adaptor to the water tap by tightening the screws firmly. Then, turn part(b) following the arrow and put (a) and (b) together.



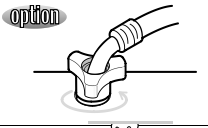
4. Connect the water supply hose to the adaptor. Pull down the part (c) of the water supply hose. When the part (c) is released, the hose is automatically connected to the adaptor making a 'click' sound.



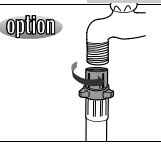
5. Connect the other end of the water supply hose to the inlet water valve at the back of the washer. Screw the hose clockwise all the way in.



5-1. Connect the other end of the water supply hose to the inlet water valve at the top of the washer. Screw the hose clockwise all the way in.



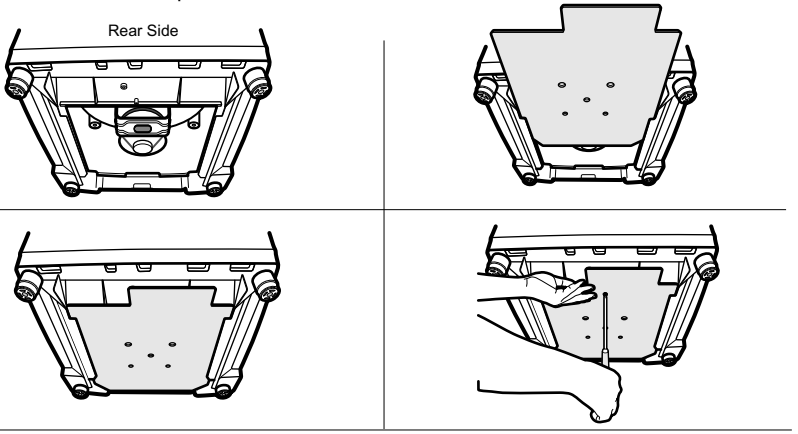
† If the water tap is a screw type, assemble a water supply hose that fits to the tap as shown. After completing connection, if water leaks from the hose, then repeat the same steps.



After completing connection, if water leaks from the hose, then repeat the same steps.
Use the most conventional type of faucet for water supply.
In case the faucet is square or too big, remove the spacing ring before inserting the faucet into the adaptor.

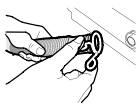
ASSEMBLING THE RAT PROTECTION PANEL

Tilt the washer a little, insert the shutter and finally fix the shutter with screw to the base as shown in the picture.

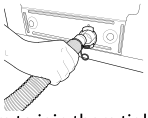


1. Insert the rat protection panel to the assembling hole on back side to the end.
2. If you have difficulty inserting the panel lift up the washer a little and insert it.

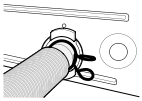
HOW TO CONNECT THE DRAIN HOSE



1 After attaching clip ring to a drain hose, directing the drain hose to the drain outlet of the washing machine.



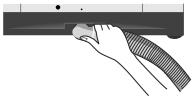
2. Be sure to join them tightly and pushing it into the drain-outlet.



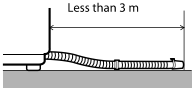
3. Adjust the clip ring over the pipe hose (as shown in picture)

HOW TO CHANGE THE DRAIN HOSE DIRECTION

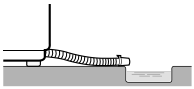
- Change the direction of the drain hose and follow the above guideline again.



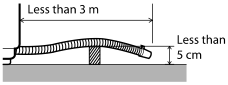
CAUTIONS WHEN INSERTING THE DRAIN HOSE



1. Don't exceed more than 3m when the drain hose is used by connecting whth other hoses.



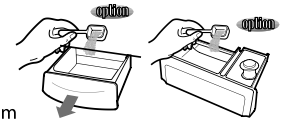
2. Be careful to drain water out at the end of the drain hose.



3. The doorsill shoudn't be more than 5cm.

4. Don't install the drain hose underneath the wash machine.

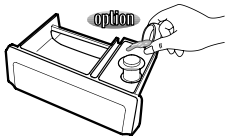
HOW TO PUT THE DETERGENT IN



1. Open the detergent box by pulling in the direction of the arrow as shown in the figure and then put the powder detergent in the detergent box.
2. Put in one-time amount of detergent evenly so the detergent may not brim over the box.

HOW TO ADD THE FABRIC SOFTENER option

Slide and open the cover in the direction of the arrow, insert the rinse detergent, and slide and close it in the reverse direction.



- When a proper amount (one time does) of fabric softener is stored in the softener inlet, it is automatically put in at the last rinsing cycle.
- Do not use detergent, bleach or starch into the Softener Inlet.
- Using too much softener may produce unsatisfactory results.
- Do not open the lid during the Spin Dry cycle. If added too early, its effectiveness will decrease.
- Do not leave the softener into the Softener Dispenser for a long time. Because softner became stiff.

setting up your washer

CHECKING BEFORE WASHING AND CARING FOR GARMENTS

Must follow the checkpoints in order to avoid machine problems or damages on garments.

- If the below problems are caused by customer's faults, separate service fee will be charged.

Checkpoints Before Starting Washing

Check if the clothes are bleaching or not.

- Add liquid detergent to a white towel and the garment where you can't notice well. Then, rub together strongly. Check if the color transferred to the towel.
- Be careful for scarves and imported clothes since they are easily discoloring.
- Check for stains or partial dirt.
- If stains are found, use the towel wet with detergents to rub on in a single direction.
- Before washing, the sleeves, collar, dress hem and pockets are pre-treated by brushing with detergents.

The wrinkle-processed clothes made of wool are specially treated by fixing them with threads before washing. The threads shall be removed after the clothes are dried.

Not washable laundry

Clothes those are easily transformable even by soaking in water.

- Even by soaking in water, neckties, brassieres, jackets, suits and coats can be easily transformed like shrinking and discoloring on the garment surfaces because they are mostly made of rayon, polynosic, cuff and their blend fabrics.
- The wrinkle-processed, embossed, or resin processed products are easy to transform even by soaking in water.
- Easily discoloring products made of cotton and wool, wrinkled silk, leather products, leather accessory, leather ornamented clothes and its accessory.
- Don't wash those clothes without handling guideline or material indication tag.

About Detergent

- When detergents are not dissolving well, use warm water (about 40°C) to dissolve the detergent.

- Use an appropriate amount.
- Even if excess amount of detergent is used, there is not much difference in washing result. It may cause damages to the garments because rinsing is not enough.
- The bleaching agent may cause damages to garments since it is strong alkali.
- Do sufficient rinsing because the powder detergent is easily remained on the garments causing bad odors.
- If too much detergent is used or cold water is used, it doesn't dissolve completely and remain on the garments, hose or spin basket, causing contamination on clothes.
- In case of reserved washing, detergents must be put in the detergent box. If the powder detergents are spread on laundry directly, it may cause discoloration.

CARING FOR CLOTHES BEFORE WASHING

Take out personal belongings from pockets

- Caution, Check the pockets! Hairpins and coins cause damages to clothes and washing machine. They make noise and problems to the machine. Must check the pocket.

If pants zippers are open while washing, the spin basket may be damaged. The zipper should be closed and fixed with a string before washing.

- Metal on the clothing may cause damage to the clothes and the tub.
- Turn clothing with buttons and embroidered clothes inside out the before washing them.
- Clothing with long strings may become entangled with other clothes, and may cause damage to the clothing. Be sure to fix the strings before washing.

Waterproof clothes (Ski Wear, Diaper Covers, Footboards) are not allowed for washing.

- This may cause the laundry to be ejected or cause the washing machine to vibrate abnormally, which may result in personal injury or damage the washing machine, the floor or the clothing. (Diapers, waterproof clothing, raincoats, umbrella covers, skiwear, car cover sheets, and sleeping bags, etc.).
- When the tub rotates, water may become trapped in the waterproof clothing or fabric and can collect in a corner, causing abnormal vibrations. In addition, the laundry rises and may be ejected and cause personal injury.

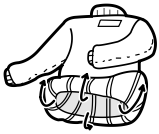
Shake the dirt or soils from clothes.

- Soil and sands may rub delicate garments to cause damages and the washing result may be unsatisfactory.

Do pre-washing for white socks, sleeves, and collars before the main washing.

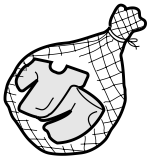
- For stains and dirt on collars, sleeves, hems, and pockets, apply some detergent to them and apply it lightly with a brush before washing.
- Use powdered or liquid detergent. Do not use soap as the tub may become dirty from the dirt on it.

Turn inside out for those nappy clothes before washing.



- If clothes have too much foreign matter, separate them for washing. Other clothes may pick up those dirty matters (dirt, thread).
- Wash black colored clothes and cotton towels separately. If they are washed together, towels may pick up dirty matters. Check before washing.

Cashmilon and those garments having big volume and lightweight (eg. Lasedecorated clothes, lingerie, nylon stocking, synthetic fabrics etc.) may rise and cause damages to the clothes and problems to the machine. Use the laundry net or wash them separately.



- Must put those long stringed clothes, lase-worked clothes, bed cover sheet, wool clothes into a laundry net before washing.
- Put delicate clothes in the laundry net.
- Use only those commercial laundry net for washing.

Curtains, floating garments or blue jeans shall be pressed not to float on the water.

- If they are floated on the water, press Start/Hold button to stop and press them to sock in the water. If the washing goes on with clothes floating on the water, it may cause damages to the clothes and the washing machine as well as unsatisfactory was hing result.

HOW TO WASH AUTOMATICALLY DEPENDS ON THE LAUNDRY

Before starting washing, check the following;

- Connect the water supply hose to the water tap. Leave a tap open. Plug the power cord in. Make sure to lay down the drain hose.

Washing for the first time

Before washing clothes for the first time, you must run a complete cycle without clothes.
To do this:

1. Press the **Power** button.
2. Open the detergent drawer and insert a little detergent.
3. Turn on the water supply to the washing machine.
4. Press the **Start/Hold** button.
   This will remove any water from the manufacturer's test run remaining in the machine.

Special Notes!

Automatic Sensing Function

- At every course (except Clean tub, delicate course) the amount of laundry is automatically sensed and then appropriate water level, washing time, rinsing cycle, and spinning time are automatically selected for automatic washing.
- After the power is on, a course is selected and **Start/Hold** button is pressed. Then, the washing board starts spinning without water. This action senses how much laundry is in the washing basket, not a machine problem. After this sensing process, water supplies automatically.

Adding Detergent and Softener

- It senses the amount of laundry and indicates the water level and amount of detergent. Then, it starts water supply right away.
- During the water supply, it is possible to open the detergent box and add detergent. However, it is better to press **Start/Hold** button to stop water supply and add detergent. Close the lid and press **Start/Hold** button again. This way is much more convenient.
- If the softener is inserted in the softener dispenser, it automatically adds in at the last rinsing cycle.

Put the laundry into the washer and add detergent, too.

- Be careful not to overload. Use right detergent for the fabrics you are washing.

- If the lid is open while running, the washing machine is stopped automatically for safety. (Except, water supply continues while the lid is open.)
- When hot water is selected, both cold and hot water are supplied for the first 20 seconds in order to protect the clothes.
- Possible to control the washing time, rinsing cycle, and spinning time at every course during the washing.

setting up your washer

CONTROL PANEL

For more details, see control panel of your washing machine.

(Option-1)

(Option-2)

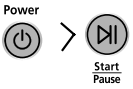
POWER BUTTON	Press this button once to operate. Press it again to turn the power off.
L/S BUTTON (Last Setting)	Press this button once to operate. Manually select the functions to use. (Course, Silver wash, Air-Turbo, Rinse count) Your choices are automatically saves when pressing the **Start/Hold** button. To use a memorized course, press the (Last Setting) button and then press the **Start / Hold** button. - The memorized functions will be displayed on the panel. Insert some detergent and rinse detergent in proportion to the water level and close the cover. This function allows frequently used functions to be memorized so that they can be easily used when needed.
START/PAUSE BUTTON	Use to pause and restart the operation. To change the washing procedure during an operation, press this button to stop, and again to restart after changing the procedure.
PROGRAM BUTTON	Each time the button is pressed, the washing course changes; Fuzzy → Sari → Delicate → Jeans → Blanket → Quick → Aqua Preserve → Clean Tub *(Option-1)* Fuzzy → Sari → Delicate → Super clean → Blanket → Quick → Aqua Preserve → Clean Tub *(Option-2)*
WASH BUTTON	Press this button to perform a wash only or to adjust the washing time. You can set the wash time from between 4 to 30 minutes.
RINSE BUTTON	Press this button to perform a rinse only or to adjust the rinse count. You can set the rinse count up to five times.
SPIN BUTTON	Press this button to perform a spin cycle only or to adjust the spin time. You can set the spin time from between 1 to 9 minutes. When only a spin is selected, the spin time will be different from the total remaining time. This is because the total remaining time includes the actual spin time and the times for water draining and stopping.

FILTER CHECK	When the wash is finished, the warning lamp lights up on the **filter check**. When the door is opened, it turns off. (This is not a fault.) When the Magic filter is clogged, foreign materials may start sticking to the laundry. To ensure a clean wash, please remove foreign materials from the filter after every wash*
CHILD-LOCK FUNCTION	This function is for protecting children, the elderly and the fail. 1. Press the Power button. 2. To activate the Child Lock function, press and hold both the Rinse and Spin buttons down simultaneously for 3 seconds. (If the Child Lock function is activated, the Child Lock Icon Blinks.) 3. Operations after activating the Child Lock function. • Even if the Child Lock function is activated, every button works until the door opens. • When you open the door during the Child Lock is being activated, the alarm sounds and an error message appears. In 30 seconds, draining begins automatically. However, if you close the door within 30 seconds, water will not be drained. (Displayed error message "CL", "dE"). • To add laundry after activating the Child Lock function, you must deactivate the Child Lock function. 4. To deactivate the Child Lock function, press and hold both the Rinse and spin buttons simultaneously for 3 seconds again. (If the Child Lock function is deactivated, the Child Lock Icon is turned off.) 5. To clear "CL" display, after draining is complete, close the door of the washing turn the power off and then on. CAUTION - This function is for preventing injury and malfunction of the product because of inappropriate operations or actions by children, the elderly or the frail. - If the door opens when the Child Lock function is activated, the water is drained by force to prevent children from drowning. - To add laundry after activating the Child Lock function, you must deactivate the Child Lock. Even if the power is turned off and then on when the Child Lock is activated, the Child Lock remains activated. - Once Child Lock is activated, if the door is opened, water is automatically drained in 30 seconds. - The Child Lock function cannot be deactivated when CL is displayed. (However, the Child Lock function can be deactivated when the dE error is displayed).
REMAINING TIME, DELAY START TIME, EFFOR DISPLAY	Displays the remaining wash time. Displays the reserved delay start time. Displays the error state if a problem occurs in the washing machine so that you can take action.
SOAK BUTTON	Press this button to perform a soak wash. This function cannot be selected during a Delicate course. Soaking is automatically applied during a Clean tub course. You can set the soak time from between 10 to 60 minutes.
SUPER CLEAN	Press this button once to operate. Water is supplied to moderate level and than five times more while washing. Water level is only selected extra high or medium.
DELAY START BOTTON option	Press this button once to operate. Use for clean washing. Water is supplied to moderate level and than 5 times more while Washing

SILVER WASH BUTTON option	A course where silver water is supplied during the wash as well as during the last rinse, with sterilization and an antibacterial coating. - **Sanitization** : Silver water is added to the water supply to perform an antibiotic sanitary wash. Sanitization is an antibiotic sanitary course. If only a hot water is selected, Silver wash cannot be selected. - **Odour Removal** : Silver water is supplied during the last rinse after the wash to apply an antibacterial coating to the laundry during the rins e. This is a sanitary rinse function to prevent the propagation of bacteria. - This is available for all courses except for the Delicate course. Using this function with fabric softener may reduce the effectiveness of this function.
AIR-TURBO BUTTON	Press this button to fast dry your laundry. Each time the button is pressed, the selection changes in the following order. 30 Min → 15 Min → Off → 30 Min This function can only be selected if a spin cycle is set.
WATER LEVEL BUTTON	The water level is automatically as like below highlighted number, **9** 8 **7** 6 **5** 4 **3** 2 [1] (Option 1). However, the remaining water level, you can select manually by pressing this button. **5 4 3 2** [1] (Option 2).
WATER SUPPLY BUTTON option	Each time this button is pressed, the type of water is selected as follows, Cold → Cold & Hot → Hot → Cold

setting up your washer

FUZZY COURSE



Selects the best washing course automatically.

1. Press the **Power** Button to "**On**".
2. Press the **Start/Hold** button.
   Water level is selected automatically. Washing rinsing, and spinning follow.
   If you want to pause, press the **Start/Hold** button again. You can change the course when paused.
3. Close the lid.

☛ Select the **Silver wash** button to perform anti-bacteria washing. option

SARI COURSE

Use this course for Sari Washing

1. Press the **Power** button to "**On**".
2. Press the **Course** select button two times.
3. Press the **Start/Hold** button.
   Water level is selected automatically. Washing rinsing, and spinning follow. If you want to pause, press the Start/Hold button again. You can change the course when paused.
4. Close the lid.

☛ Select the **Silver wash** button to perform anti-bacteria washing. option

DELICATE COURSE

Washable sweater, cardigan, delicate clothes etc.

1. Press the **Power** button to "**On**".
2. Press the **Course** select button two times
3. Press the **Start/Hold** button.
   Washing, rinsing, and spinning follow. If you want to pause, press the **Start/Hold** button again. You can change the course when paused.
4. Close the lid.

CAUTION

Replace the contents with these:

- You can only select cold water.
- The last spin operates lightly to prevent wrinkles.
- Use the detergent indicated in the laundry.

☛ In the Delicate course, the **Silver Wash, Soak & Air Turbo** cannot be selected as it could damage the washed items.

JEANS

If you want to wash those frequently used towels or less dirty laundry time.
Because washing is speedy, it is good for light or less stained laundry.

1. Press the **Power** button to "**On**".
2. Press the **Course** select button three times.
3. Press the **Start/Hold** button.
   Water level is selected automatically. Washing, rinsing, and spinning follow. If you want to pause, press the Start/Hold button again. You can change the course when paused.
4. Close the lid.

☛ Select the **Silver wash** button to perform anti-bacteria washing. option

BLANKET COURSE

(Big volume laundry like blanket and bed cover sheets)

1. Press the **Power** button to "**On**".
2. Press the **Course** select button seven times.
   (Onces for Non Silver Nano Model)
3. Press the **Start/Hold** button.
   Water level is selected automatically. Washing, rinsing, and spinning follow. If you want to pause, press the **Start/Hold** button again. You can change the course when paused.
4. Close the lid.
   - Fold those big volume laundry (blanket and bed cover sheets) in the following way before adding into the spin basket.
   - Do not wash the electric blanket and carpets.
   - Get a laundry net for those light and big volume laundry (eg. Cashmeres) because they might rise in the water and get damaged.

☛ Select the Silver wash button to perform anti-bacteria washing. option

QUICK COURSE

If you want to wash those frequently used towels or less dirty laundry time.
Because washing is speedy, it is good for light or less stained laundry.

1. Press the **Power** button to "**On**".
2. Press the **Course** select button five times.
3. Press the **Start/Hold** button.
   Water level is selected automatically. Washing, rinsing, and spinning follow. If you want to pause, press the **Start/Hold** button again. You can change the course when paused.
4. Close the lid.

☛ Select the **Silver Wash** button to perform anti-bacteria washing. option

AQUA PRESERVE

How to preserve, Water after washing?

Select the course when you want to re-use your water after washing.

1. Press the Power Button to "ON".
2. Press the course select button six times.
3. Press the Start / Hold Button.
4. Washing and rinsing follow. If you want to pause, Press the Start / Hold Button again. You can change the course when paused.

CAUTION Spin and Air Turbo function will not work. you can use the last rinsing water for next washing.

CLEAN TUB COURSE

Use this course to clean the tub. It will keep the tub clean and sanitary.

1. Press the **Power** button to "**On**".
2. Press the **Course** select button two times.
   (Three times for Non Silver Nano Model)
3. Press the **Start/Hold** button.
4. Add a delicated detergent and close the lid

☛ Select the **Silver wash** button to perform anti-bacteria washing. option

- Never place laundry in the tub when cleaning inside the tub, as this can cause discoloration or damage to the laundry.
- When doing the laundry after cleaning the tub, you may find some impurities. These are just detergent residues and impurities after the tub cleaning. Perform the rinse cycle two to three times.
- The Soak function (20 minutes) is set automatically.
- The water level is set to 8 only. Air turbo function will not work.

KEEPING THE TUB CLEAN

When using the machine under humid conditions for an extended time, various bacteria from the air may stick to the tub and form black dirt (fungi), causing damage to the human body. To keep the tub clean and hygienic at all times, it is recommended reading "**CLEAN TUB COURSE**" above and using only dedicated or recommended detergents to clean the tub regularly at least once every one to three months.

DELAY START

How to reserve washing?

Select this course when you have to go out or do something else.

1. Press the **Power** button to "**On**".
2. Press the **Course** select button.
3. Press the **Delay Start** button once.
   You may change the delay start time with use the **Delay Start** button. (from 3 hours to 18 hours)
4. Press the **Start/Hold** button and put the proper amount of detergent into tub.
5. Close the lid.
   The washing finishes by the time you reserved. Add detergent and softener in proportion to the water level. Then, close the lid.

- Must add the detergent in the detergent box.
- If the detergent is spread on the laundry directly, some clothes may get discolored as the start delays.
- If the Delay Start needs to be canceled, press the **Power** button.
- The reserved finish time may be changed depends on the water pressure.

SUPER CLEAN COURSE

Use for cleaner washing.

1. Press the **Power** button to "**On**".
2. Press the **Super Clean** select button five times.
   Three times for Option 2.
3. Press the **Start/Hold** button and put the proper amount of detergent into tub.
   Water level is selected automatically.
   Water level is only selected 9~5.
4. Close the lid.

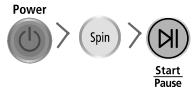
☛ Select the **Silver wash** button to perform anti-bacteria washing. option

manual function

Possible to select the function for each course.
(Example) For a simple washing as the little dirt course :
Power → Select the little dirt course → Wash → Start/Hold

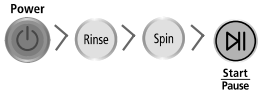
WASH ONLY
Press the **Power** button.
Press the **Wash** button.
Press the **Start/Hold** button.
Washing goes on for 15 minutes.
When the **Wash** button is pressed during washing, the wash time can be changed to between 4 and 30 minutes in duration.

RINSE ONLY
Press the **Rinse** button.
Press the **Start/Hold** button.
Rinsing goes on for 2 times.
When the **Rinse** button is pressed during rinsing, the rinse times can be changed to between 2 to 5 times in duration.

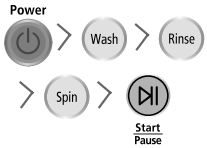


SPIN ONLY
Press the **Spin** button.
Press the **Start/Hold** button.
Spin drying goes on for 5 minutes.
When the **Spin** button is pressed during spinning, the spin time can be changed to from 1 to 9 times.

WASH AND RINSE
Press the **Wash** and **Rinse** button.
Press the **Start/Hold** button once.
Detects the amount of laundry, and determines wash and rinse time period automatically.
When the **Wash** and **Rinse** button is pressed during working.
Wash time period is determined between 4 and 30 minutes, and rinse time is determined between 1 and 5 times.



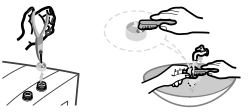
RINSE AND SPIN
Press the **Rinse** and **Spin** button.
Press the **Start/Hold** button once.
Rinsing and spin drying follow.
When the **Rinse** and **Spin** button is pressed during working. The number of rinse times is determined between 2 and 5, and spin time period for drying is determined between 1 and 9 minutes.



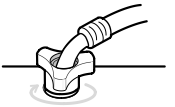
WASH, RINSE AND SPIN
Press the **Wash** , **Rinse** and **Spin** button.
Press the **Start/Hold** button once.
Wash, **Rinse** and **Spin** is performed.

WATER SUPPLY CONNECTOR FILTER

1. Pull out the filter, clean the dirt and wash well.



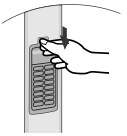
2. Pull in the filter and connect the hose to the inlet water valve tightly.



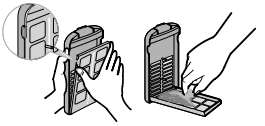
3. Check if there is a leakage.
   Note to tighten up the connector.

CLEANING THE FILTER

Clean the filter net often to keep the washer clean.

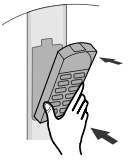


1. Push the upper part of the Magic filter and pull in.



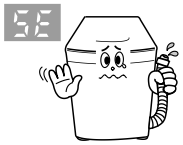
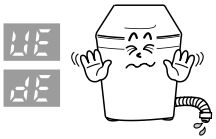
2. Open the cover as shown in the figure.

3. Clean the Magic filter.



4. Close the cover and insert the lower part of the filter in the basket first and then push the filter with “click” sound.

troubleshooting

PROBLEM	CHECK
Washing machine won't work	- Is the water tap opened? - Is the washer plugged in? - Is the power cut off? - Is there enough water?
Water dose not drain	- Is the drain hose down?(No pump) - Is the drain hose frozen? - Is the drain hose clogged? - If the water dose not drain in 15 minutes, a buzzer will sound, and the remaining time indicator will show "5E". 
Water is not supplied	- Is the water tap opened? - Is the water cut off? - Is the water supply hose or hose connection clogged? - Is the water tap frozen? - If water is not supplied in 1 hour, a buzzer will sound, and the remaining time indicator will show "4E".
Spinning does not work	- Is the laundry spread out evenly in the washer? - In the washer set on a sturdy flat surface? 
Water is overflowed	- Restart after spinning. - If the error sign still indicates, call agency.
Washing does not work	- Is the the lid open while washing?

washing machine won't work?

PROBLEM	CHECK & SOLUTION
The power is cut off.	Is the electric voltage normal?
	Is the washer plugged in? Plug in the electric cord. ➲ Water does not drain.
	Is the drain hose down? Put the drain hose down.
	Is the drain hose folded? Unfold the drain hose.
	Is the drain hose outlet clogged? Remove the waste cleanly.
Washing machine won't work.	Is the washer lid open? ➲ Close the lid.
	Is the Hold button on? ➲ Press the Start/Hold button one more time and check if the washer starts.
	Is enough water filled to the water level? ➲ If the water pressure is low, it takes a long time to start washing.
	Is the faucet closed? ➲ Open the faucet to supply water.
If the drain hose and spin basket are frozen, do as follows.	• Add hot water to the frozen water tap and remove the drain hose. Soak into hot water. • Pour hot water into the spin basket for about 10 minutes. • Put a hot water towel on the drain hose connector. • If the drain hose defrosts, connect again and check for proper water draining.
The water drains out immediately.	• The drain is clogged with coins or pins. The drain hose is hung over the drain hose hook. Half fill the spin basket with water and try for spinning again.
The water leaks at the water supply hose connector.	If the faucet connecting part is loose, water may leak. ➲ Repeat the assembling steps again. (Refer to "Connecting the water supply hose")
	Check if the rubber packing of water supply hose is in the right position. ➲ Screw tightly again.
	Is the water supply hose folded? ➲ Unfold the hose.
	If the water supply is too strong, water may leak. ➲ Close the faucet a little.
	Is water leaking from the faucet itself? ➲ Fix the faucet. Water is not supplied.

PROBLEM	CHECK
The water leaks at the water supply hose connector.	Did you press the Start/Hold button after selecting the water supply? ➲ If the Start/Hold button is not pressed, water is not supplied. Press the Start/Hold button.
	Is the faucet closed? ➲ Turn on the faucet.
	Is the filter net at the water supply hose connector clogged with dirty matters? ➲ Clean the filter net by brushing with a toothbrush.
	Is the water supply cut off? ➲ If the water supply is suspended, turn off the faucet and power off.
Spinning makes loud noises and vibrations.	Check if the laundry is spread evenly in the washer. ➲ Spread out the laundry evenly and start again.
	Check if the washing machine levels on a sturdy flat floor. ➲ Set the machine at level.
	Is the handle for leveling legs loose? ➲ Adjust the legs on the feet for leveling.
	Is around the washing machine filled with unnecessary stuffs? ➲ Remove those unnecessary things away from the wash machine.

specification

MAX. MASS OF DRY CLOTH IN kg	WA90AVE WA90AWM WA90A7K	7.0Kg	STANDARD WATER LEVEL (Approx.)	Water Usage / Wash at different Water Level	
				9 Water Level	5 Water Level
	WA85ASN WA85ASO WA85A5C	6.5Kg		**9** / 60ℓ	**5** / 60ℓ
				8 / 55ℓ **7** / 50ℓ	**4** / 50ℓ
	WA82ASL WA82A5R WA82A4R	6.2kg		6 / 44ℓ **5** / 41ℓ	**3** / 41ℓ
POWER CONSUMPTION	WASH	330W		4 / 36ℓ **3** / 30ℓ	**2** / 30ℓ
	SPIN	240W		2 / 26ℓ **1** / 20ℓ	**1** / 20ℓ
DIMENSIONS(mm)		W540xD568xH962(HIGH BASE) W540xD568xH942(LOW BASE)			
WEIGHT		32.5 Kg (HIGH BASE) 32.3 Kg (LOW BASE)			
WATER PRESSURE		0.05~0.78 MPa (0.5 ~ 8.0 kg · f/cm^2)	SPIN SPEED	680 rpm	
WASHING TYPE		Stirring Type			

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